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Nation of Allowability	Application No.	Applicant(s)
	10/782,660	LAI ET AL.
Notice of Allowability	Examiner	Art Unit
	Thinh T. Nguyen	2818
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subje	application. If not included tion will be mailed in due course. THIS
1. A This communication is responsive to 9/13/2005.		
2. ⊠ The allowed claim(s) is/are <u>1-20</u> .		
 Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No)
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 		
5. CORRECTED DRAWINGS (as "replacement sheets") musi	t be submitted.	
(a) ☐ including changes required by the Notice of Draftsperso		TO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the	ne Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the deposent attached Examiner's comment regarding REQUIREMENT F 	sit of BIOLOGICAL MATERIA FOR THE DEPOSIT OF BIOLOG	AL must be submitted. Note the GICAL MATERIAL.
	·	
Attachment(s)	E Malion of Inform	al Patent Application (PTO 452)
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. ☐ Notice of Inform 6. ☐ Interview Summ	al Patent Application (PTO-152) arv (PTO-413)
	Paper No./Mail	Date
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	8), 7. 🗍 Examiner's Ame	endment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	ement of Reasons for Allowance
	9. 🗍 Other	Riggen Van Ngo Prismary Examinor

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DETAILED ACTION

Reason for allowance

1. Claims 1-20 are allowed. The following is an examiner's statement of reason for allowance:

I/ Group I: Claims 1-8: Claims 1-8 are allowed because none of the references of record teaches or suggests the claimed LEAD FRAME AND SEMICONDUCTOR

PACKAGE WITH THE SAME having the limitations:

-- "A plurality of grounding portions protruded from the die pad and formed on at. least a side of the die pad, each of the grounding portions having a grounding surface, wherein the thickness of the grounding portion is smaller than that of the die pad and a ground pad is formed on the grounding surface of each of the grounding portion:, allowing a plurality of grounding wires to be respectively bonded to the ground pads of the grounding portions and the semiconductor chip for transmitting ground signals; and a plurality of leads surrounding the die pad. for allowing a set of bonding wires to be bonded to the leads and the semiconductor chip so as to electrically connect the semiconductor chip to the leads. "-- and all other limitations as recited in claim 1.

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II/ Group II: Claims 9-20: Claims 9-20 are allowed because none of the references of record teaches or suggests the claimed LEAD FRAME AND SEMICONDUCTOR PACKAGE WITH THE SAME having the limitations:

--" a die pad having a top surface and a bottom surface, with the semiconductor chip mounted on the top surface;

a plurality of grounding portions protruded from the die pad an-d formed on at least a side of the die pad. Each of the grounding portions having a grounding surface and a bottom surface opposed to the grounding surface wherein the thickness of the grounding portion is smaller than that of the die pad, and a ground pad is formed on the grounding surface of each of the grounding portions allowing a plurality of grounding wires to be respectively bonded to the ground pads of the grounding portions and the semiconductor chip for transmitting ground signals; and a plurality of leads bonded with a set of bonding wires that are connected to the semiconductor chip so as to electrically connect the semiconductor chip to the leads via the set of bonding wire; and an encapsulation body for encapsulating the semiconductor chip, the die pad, the grounding portion and part of the leads. "--

and all other limitations as recited in claim 9.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 571-272-1790. The examiner can normally be reached on Monday-Friday 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached at 571-272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9319 for After Final communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval [PAIR] system. Status information for published applications
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Thinh T Nguyen

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Nigan Van Nigo Primary Examinor Page 5